

FORM PTO-1449  
(REV. 7-80)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.  
3200-3072-US-C

SERIAL NO. 07/785,351  
09/139,705

LIST OF PRIOR ART CITED BY APPLICANT  
(Use several sheets if necessary)

APPLICANT  
GEOFFREY S. MARTIN ET AL

FILING DATE  
10/30/91

GROUP  
3306

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
RS	AA	4 9 6 83 0 7	11/90	DAKE ET AL	604	280	
RS	AB	4 6 8 15 6 4	7/87	LANDRENEAU	604	280	
RS	AC	4 7 6 90 0 5	9/88	GINSBURG ET AL	604	164	
RS	AD	4 1 6 87 0 3	9/79	KENIGSBERG	604	280	
RS	AE	4 6 7 00 0 5	6/87	BULLOCK	604	280	
RS	AF	4 4 0 66 5 6	4/83	HATTLER ET AL	604	280	
RS	AG	4 6 6 82 2 5	5/87	RUSSO ET AL	604	280	
RS	AH	4 5 8 39 6 8	4/86	MAHURKAR	604	280	
RS	AI	4 9 6 18 0 9	10/90	MARTIN	604	280	
RS	AJ	3 6 3 49 2 4	1/72	BLAKE ET AL	29	447	
RS	AK	4 0 7 21 4 6	2/78	HOWES	128	674	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
AL						
AM						
AN						
AO						
AP						

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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EXAMINER

DATE CONSIDERED

8/27/92

Form PTO-1449  
REV. 7-801

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.  
3200-3072-US-C

SHEET NO. 09/139705  
07/785,351

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GEOFFREY S. MARTIN, ET AL

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
RS	AA	3 5 2 8 8 6 9	9/15/70	DERENIUK	156	294	
RS	AB	4 2 5 1 3 0 5	2/17/81	BECKER ET AL	604	103	
RS	AC	4 3 9 0 3 8 3	6/28/83	VAN DONGEREN	156	294	
RS	AD	4 8 1 3 4 2 9	3/21/89	ESHEL ET AL	604	43	
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
AL						
AM						
AN						
AO						
AP						

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AP	
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EXAMINER  
Ron Slight, Jr.

DATE CONSIDERED  
8/27/92

Form PTO-1449  
Applicant:  
Serial No.:  
Filing Date:  
For:

Geoffrey S. Martin  
~~08/481,169~~ 09/139,705  
June 7, 1995  
MULTIPLE LUMEN CATHETER

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GROUP 3300

Sheet 1 of 1

Att'y Docket No. 13799.3.1  
Group: 3303

INFORMATION DISCLOSURE CITATIONS MADE BY APPLICANT

U.S. Patent Documents

Examiner Initial*	Patent Number	Issue Date	Name	Class	Sub Class	Filing Date
			-none-			

Foreign Patent Documents

Examiner Initial*	Document Number	Publ. Date	Country or Patent Office	Sub Class	Class	Trans- lation
<u>RS</u> A1	2,201,908	5-3-74	France			Yes

Other Documents

(including author (if listed), title, relevant pages, date of publication including at least month and year).

Examiner  
Initial\*

RS A2

Stephen P. Gatt, A Quadruple Lumen Intravenous Infusion Catheter, 11 Anaesth Intens Care 261-62 (1983).

References Cited by Applicants

While the filing of Information Disclosure Statements is voluntary, the procedure is governed by the guidelines of Section 609 of the Manual of Patent Examining Procedure and 37 C.F.R. §§ 1.97 and 1.98. To be considered a proper Information Disclosure Statement, Form PTO-1449 shall be accompanied by a copy of each listed patent or publication or other item of information and a translation of the pertinent portions of foreign documents (if an existing translation is readily available to the applicant), an explanation of relevance of each reference not in the English language, and should be submitted in a timely manner as set out in MPEP Sec. 609.

Examiners will consider all citations submitted in conformance with 37 C.F.R. § 1.98 and MPEP Sec. 609 and place their initials adjacent the citations in the spaces provided on this form. Examiners will also initial citations not in conformance with the guidelines which may have been considered. A reference may be considered by the Examiner for any reason whether or not the citation is in full conformance with the guidelines. A line will be drawn through a citation if it is not in conformance with the guidelines AND has not been considered. A copy of the submitted form, as reviewed by the Examiner, will be returned to the applicant with the next communication. The original of the form will be entered into the application file.

Each citation initialed by the Examiner will be printed on the issued patent in the same manner as references cited by the Examiner on Form PTO-892.

The reference designations "A1", "A2", etc. (referring to Applicant's reference 1, Applicant's reference 2, etc.) will be used by the Examiner in the same manner as Examiner's reference designations "A", "B", "C", etc. on Office Action Form PTO-1142.

NK/SB/3273.1.1449

Examiner:

Ron Strick

Date Considered:

11/25/97

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08/481,169  
Geoffrey Martin, et al.

08/481,169 09/1139,705

June 7, 1995

MULTIPLE LUMEN CATHETER

Att'y Docket No. 13799.3.1  
Group: 3303No.:  
Filing Date:  
For:INFORMATION DISCLOSURE CITATIONS MADE BY APPLICANTU.S. Patent Documents

Examiner Initial*	Patent Number	Issue Date	Name	Class	Sub Class	Filing Date
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-none-

Foreign Patent Documents

Examiner Initial*	Document Number	Publ. Date	Country or Patent Office	Sub Class	Class	Trans- lation
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-none-

Other Documents

(including author (if listed), title, relevant pages, date of publication including at least month and year).

Examiner  
Initial\*

<u>RS</u> A1	Arrow International, Inc., 510(k) Notification for Multi-Lumen M.I.S. <sup>TM</sup> Catheterization System (April 14, 1982)
<u>RS</u> A2	Arrow International, Inc., 510(k) Notification for Arrow Central Venous Multi-Lumen Catheter with Flex Tip (August 25, 1986)
<u>RS</u> A3	Arrow International, Inc., 510(k) Notification for Arrow 18GA Two Lumen Intravenous Catheter/23GA Needle (December 11, 1986)
<u>RS</u> A4	Arrow International, Inc., Arrow <sup>®</sup> -Howes <sup>TM</sup> Multi-Lumen Central Venous Catheterization Kit (circa 1986)
<u>RS</u> A5	Arrow International, Inc., The Arrow Multi-Lumen Catheter System (circa 1986)

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GROUP 330Complete by  
IntegrableReferences Cited by Applicants

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Ron Stought

Date Considered:

11/25/97

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Applicant:

GEOFFREY S. MARTIN *etal*

Serial No.:

~~00/401,169~~ 09/13/1,705

Att'y Docket No. 13799.3.1

Filing Date:

June 7, 1995

For:

MULTIPLE LUMEN CATHETER

Art Unit: 3306

## INFORMATION DISCLOSURE CITATIONS MADE BY APPLICANT

## U.S. Patent Documents

GROUP 330  
86 SEP 16 AM 11:32  
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Examiner Initial*	Patent Number	Issue Date	Name	Class	Sub Class	Filing Date
<u>RS</u> A1	Re.31,873	04/30/85	Howes	<del>128</del>	<del>674</del>	01/19/83
<u>RS</u> A2	Des.272,651	02/14/84	Mahurkar	<del>D24</del>	<del>54</del>	11/02/81
<u>RS</u> A3	0,550,238	11/26/1895	Allen, Jr.			05/20/1895
<u>RS</u> A4	1,696,018	12/18/28	Schellberg			07/10/26
<u>RS</u> A5	1,922,084	04/24/31	Gerow	<del>128</del>	<del>349</del>	08/15/33
<u>RS</u> A6	2,173,527	09/19/39	Agayoff	<del>128</del>	<del>349</del>	02/23/37
<u>RS</u> A7	2,175,726	10/10/39	Gebauer	<del>128</del>	<del>349</del>	11/26/38
<u>RS</u> A8	2,230,218	06/02/38	Asche	<del>128</del>	<del>276</del>	02/04/41
<u>RS</u> A9	2,409,343	04/05/43		<del>128</del>	<del>214</del>	10/15/46
<u>RS</u> A10	2,473,742	06/21/49		<del>128</del>	<del>349</del>	12/28/44
<u>RS</u> A11	2,561,569	07/24/51			<del>13</del>	01/10/47
<u>RS</u> A12	2,564,977	08/21/51		<del>128</del>	<del>218</del>	01/19/49
<u>RS</u> A13	2,590,895	04/01/52	Scarpellino	<del>128</del>	<del>221</del>	11/21/49
<u>RS</u> A14	2,819,718	07/16/53	Goldman	<del>128</del>	<del>350</del>	01/14/58
<u>RS</u> A15	2,936,761	05/17/60	Snyder	<del>128</del>	<del>349</del>	04/25/58
<u>RS</u> A16	3,042,045	07/03/62	Sheridan	<del>128</del>	<del>349</del>	07/02/58
<u>RS</u> A17	3,055,361	09/25/62	Ballard	<del>128</del>	<del>214</del>	04/22/60
<u>RS</u> A18	3,064,653	11/20/62	Coanda	<del>128</del>	<del>348</del>	06/04/59
<u>RS</u> A19	3,174,890	03/23/65	Goyke	<del>156</del>	<del>272</del>	07/10/61
<u>RS</u> A20	3,322,590	05/30/67	Clark	<del>156</del>	<del>273</del>	03/09/64
<u>RS</u> A21	3,324,854	06/18/67	Weese	<del>128</del>	<del>215</del>	04/23/64

Examiner:

*Tom Stuyt*

Date Considered:

2/3/97

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*DU*

Applicant: GEOFFREY S. MARTIN *et al*  
 Serial No.: 08/481,169  
 Filing Date: June 7, 1995  
 For: MULTIPLE LUMEN CATHETER

Att'y Docket No. 13799.3.1

Art Unit: 3306

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Examiner Initial*	Patent Number	Issue Date	Name	Class	Sub Class	Filing Date
<u>RS</u>	A22	3,331,371	07/18/67	Rochi <i>et al</i>	<del>128</del> 349	03/09/65
<u>RS</u>	A23	3,359,974	12/26/67	Khalil	<del>128</del> 2.05	10/07/63
<u>RS</u>	A24	3,370,587	02/27/68	Vizcarra	<del>128</del> 214.4	07/17/62
<u>RS</u>	A25	3,394,705	07/30/68	Abramson	<del>128</del> 349	10/22/65
<u>RS</u>	A26	3,411,506	11/19/68	Velasco	<del>128</del> 325	04/11/66
<u>RS</u>	A27	3,437,088	04/08/69	Bielinski	<del>128</del> 2	12/01/66
<u>RS</u>	A28	3,448,739	06/10/69	Stark et al.	<del>128</del> 2.05	08/22/66
<u>RS</u>	A29	3,452,756	07/01/69	Harautuneian	<del>128</del> 349	10/10/66
<u>RS</u>	A30	3,467,180	09/16/69	Pensotti	<del>165</del> 180	03/30/66
<u>RS</u>	A31	3,469,579	09/30/69	Hubert	<del>128</del> 214.4	05/05/67
<u>RS</u>	A32	3,528,869	09/15/70	Dereniuk	<del>456</del> 294	02/28/68
<u>RS</u>	A33	3,593,713	07/20/71	Bogoff et al	<del>128</del> 246	07/12/68
<u>RS</u>	A34	3,625,793	12/07/71	Sheridan et al	<del>156</del> 229	09/23/69
<u>RS</u>	A35	3,634,924	01/18/72	Blake et al.	<del>29</del> 447	04/20/70
<u>RS</u>	A36	3,720,210	03/13/73	Diettrich	<del>128</del> 214.4	03/03/71
<u>RS</u>	A37	3,726,281	04/10/73	Norton et al.	<del>128</del> 349	12/08/71
<u>RS</u>	A38	3,746,003	07/17/73	Blake et al	<del>128</del> 349-B	09/23/71
<u>RS</u>	A39	3,746,033	07/17/73	Keiper, II	<del>137</del> 205	08/05/71
<u>RS</u>	A40	3,771,527	11/13/73	Ruisi	<del>128</del> 350-R	08/16/71
<u>RS</u>	A41	3,804,097	04/16/74	Rudie	<del>128</del> 350-R	12/14/72
<u>RS</u>	A42	3,805,794	04/23/74	Schlesinger	<del>128</del> 349	12/18/72
<u>RS</u>	A43	3,817,389	06/18/74	Weichselbaum	<del>210</del> 440	01/15/73
<u>RS</u>	A44	3,848,602	11/19/74	Gutnick	<del>128</del> 344	04/19/72

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Date Considered:

*For Straight* *2/3/97*  
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Applicant: GEOFFREY S. MARTIN *et al*Serial No.: ~~08/481,169~~ 09/139,705

Att'y Docket No. 13799.3.1

Filing Date: June 7, 1995

For: MULTIPLE LUMEN CATHETER 11

Art Unit: 3306

*COPY*

Examiner Initial*	Patent Number	Issue Date	Name	Sub Class	Filing Class	Date
<u>RS</u>	A45	3,885,567	Ross	<del>128</del>	<del>278</del>	02/20/73
<u>RS</u>	A46	3,888,249	Spencer	<del>128</del>	<del>214 R</del>	11/02/73
<u>RS</u>	A47	3,976,529	Weichselbaum	<del>156</del>	<del>272</del>	01/31/74
<u>RS</u>	A48	3,983,203	Corbett	<del>264</del>	<del>150</del>	11/16/73
<u>RS</u>	A49	3,995,623	Blake et al.	<del>128</del>	<del>2.06</del>	02/11/76
<u>RS</u>	A50	4,003,665	Dreyer et al.	<del>401</del>	<del>259</del>	03/20/75
<u>RS</u>	A51	4,004,588	Alexander	<del>128</del>	<del>341</del>	08/25/75
<u>RS</u>	A52	4,016,879	Mellor	<del>128</del>	<del>214.4</del>	04/07/75
<u>RS</u>	A53	4,027,668	Dunn	<del>128</del>	<del>214 R</del>	12/10/75
<u>RS</u>	A54	4,037,599	Raulerson	<del>128</del>	<del>214.4</del>	01/26/76
<u>RS</u>	A55	4,050,667	Kossett	<del>249</del>	<del>82</del>	11/26/75
<u>RS</u>	A56	4,087,065	Thow	<del>128</del>	<del>340</del>	06/21/76
<u>RS</u>	A57	4,063,980	Trunnell	<del>156</del>	<del>165</del>	05/19/75
<u>RS</u>	A58	4,072,146	Howes	<del>128</del>	<del>2.05 D</del>	09/08/76
<u>RS</u>	A59	4,072,153	Swartz	<del>128</del>	<del>340</del>	03/03/76
<u>RS</u>	A60	4,098,275	Consalvo	<del>128</del>	<del>214 R</del>	12/20/76
<u>RS</u>	A61	4,099,528	Sorenson et al.	<del>128</del>	<del>214.40</del>	2/17/77
<u>RS</u>	A62	4,100,246	Frisch	<del>264</del>	<del>230</del>	06/21/76
<u>RS</u>	A63	4,134,402	Mahurkar	<del>128</del>	<del>214 R</del>	07/05/77
<u>RS</u>	A64	4,168,703	Kenigsberg	<del>128</del>	<del>748</del>	07/18/77
<u>RS</u>	A65	4,171,943	Tschanz et al.	<del>425</del>	<del>392</del>	01/25/78
<u>RS</u>	A66	4,178,936	Newcomb	<del>128</del>	<del>349 B</del>	07/27/77
<u>RS</u>	A67	4,180,068	Jacobsen et al.	<del>128</del>	<del>214 R</del>	04/13/78

Examiner: *Ron Straight*

Date Considered:

*2/3/97*

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Applicant: GEOFFREY S. MARTIN *etal*  
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*Copy*

Examiner Initial*	Patent Number	Issue Date	Name	Class	Sub Class	Filing Date
<u>RS</u>	A68	4,180,076	12/25/79	Betancourt	<del>128</del> <del>349</del>	01/13/78
<u>RS</u>	A69	4,198,984	04/22/80	Taylor	<del>128</del> <del>349</del> BV	05/04/78
<u>RS</u>	A70	4,202,332	05/13/80	Tersteegen <i>etal</i>	<del>128</del> <del>214.4</del>	01/05/78
<u>RS</u>	A71	4,203,436	05/20/80	Grimsrud	<del>128</del> <del>214</del> R	03/28/78
<u>RS</u>	A72	4,210,479	07/01/80	Fabisiewicz	<del>156</del> <del>273</del>	06/14/78
<u>RS</u>	A73	4,214,593	07/29/80	Imbruce et al.	<del>128</del> <del>748</del>	09/18/78
<u>RS</u>	A74	4,217,895	08/19/80	Sagae et al.	<del>128</del> <del>214.4</del>	05/26/78
<u>RS</u>	A75	4,248,224	02/03/81	Jones	<del>128</del> <del>214</del>	08/01/78
<u>RS</u>	A76	4,251,305	02/17/81	Becker et al.	604 103	11/01/78
<u>RS</u>	A77	4,268,338	05/19/81	Peterson	<del>156</del> <del>251</del>	08/20/79
<u>RS</u>	A78	4,270,535	06/02/81	Bogue et al.	<del>128</del> <del>214.4</del>	10/18/79
<u>RS</u>	A79	4,299,226	11/10/81	Banka	<del>128</del> <del>344</del>	08/08/79
<u>RS</u>	A80	4,309,994	01/12/82	Grunwald	<del>128</del> <del>214</del> R	02/25/80
<u>RS</u>	A81	4,336,036	06/22/82	Leeke et al.	<del>55</del> <del>159</del>	01/08/81
<u>RS</u>	A82	4,352,354	10/05/82	Ujihara	<del>128</del> <del>214</del> R	03/04/81
<u>RS</u>	A83	4,354,495	10/19/82	Bodicky	<del>128</del> <del>348</del>	10/30/80
<u>RS</u>	A84	4,364,394	12/21/82	Wilkinson	604 96	11/24/80
<u>RS</u>	A85	4,384,186	05/17/83	Burt	<del>219</del> <del>10.81</del>	07/23/81
<u>RS</u>	A86	4,385,631	05/31/83	Uthmann	604 284	03/18/81
<u>RS</u>	A87	4,390,383	06/28/83	van Dongeren	<del>156</del> <del>294</del>	03/25/81
<u>RS</u>	A88	4,392,848	07/12/83	Lucas et al.	604 53	06/25/79
<u>RS</u>	A89	4,398,910	08/16/83	Blake et al.	604 93	02/26/81
<u>RS</u>	A90	4,403,983	09/13/83	Edelman et al.	604 43	11/06/81

Examiner:

Date Considered:

*Ron Stuyk* *2/3/97*  
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Applicant: GEOFFREY S. MARTIN *et al*  
 Serial No.: ~~08/481,169~~ 09/139,705  
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 For: MULTIPLE LUMEN CATHETER

Att'y Docket No. 13799.3.1

Art Unit: 3306

COPY

Examiner Initial*	Patent Number	Issue Date	Name	Class	Sub Class	Filing Date
<u>RS</u>	A91	4,403,985	09/13/83	Boretos	604 53	05/12/81
<u>RS</u>	A92	4,404,159	09/13/83	McFarlane	<del>264</del> 296	03/16/81
<u>RS</u>	A93	4,405,313	09/20/83	Sisley et al.	604 43	01/29/82
<u>RS</u>	A94	4,406,656	09/27/83	Hattler et al.	604 280	06/01/81
<u>RS</u>	A95	4,419,095	12/06/83	Nebergall et al.	604 96	05/14/80
<u>RS</u>	A96	4,425,177	01/10/84	Shinno	<del>156</del> <del>272.2</del>	09/28/82
<u>RS</u>	A97	4,451,252	05/29/84	Martin	604 43	07/24/81
<u>RS</u>	A98	4,484,585	11/27/84	Baier	<del>120</del> <del>748</del>	09/02/82
<u>RS</u>	A99	4,493,696	01/15/85	Uldall	604 43	05/04/84
<u>RS</u>	A100	4,496,353	01/29/85	Overland et al.	604 272	09/09/82
<u>RS</u>	A101	4,543,087	09/24/85	Sommercorn et al.	604 43	11/14/83
<u>RS</u>	A102	4,545,390	10/08/85	Leary	<del>120</del> <del>772</del>	09/22/82
<u>RS</u>	A103	4,551,292	11/05/85	Fletcher et al.	<del>264</del> <del>139</del>	04/05/84
<u>RS</u>	A104	4,568,329	02/04/86	Mahurkar	604 43	10/01/84
<u>RS</u>	A105	4,573,966	03/04/86	Weikl et al.	604 53	11/24/82
<u>RS</u>	A106	4,583,968	04/22/86	Mahurkar	604 280	08/15/84
<u>RS</u>	A107	4,619,643	10/28/86	Bai	604 43	06/18/84
<u>RS</u>	A108	4,623,327	11/18/86	Mahurkar	604 4	02/12/85
<u>RS</u>	A109	4,643,711	02/17/87	Bates	604 4	05/25/84
<u>RS</u>	A110	4,661,300	04/28/87	Daugherty	<del>264</del> <del>40.6</del>	03/11/86
<u>RS</u>	A111	4,668,221	05/26/87	Luther	604 168	01/27/85
<u>RS</u>	A112	4,668,225	05/26/87	Russo et al.	604 280	12/23/85
<u>RS</u>	A113	4,670,009	06/02/87	Bullock	604 280	04/16/85

Examiner: *Roy Stuyler* Date Considered: *2/3/97*

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant: GEOFFREY S. MARTIN *et al*  
 Serial No.: ~~98/481,169~~ 09/139,705  
 Filing Date: June 7, 1995  
 For: MULTIPLE LUMEN CATHETER

Att'y Docket No. 13799.3.1

Art Unit: 3306

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Examiner Initial*	Patent Number	Issue Date	Name	Class	Sub Class	Filing Date
<u>RS</u>	A114	4,681,564	07/21/87	Landreneau	604 280	10/21/85
<u>RS</u>	A115	4,682,978	07/28/87	Martin	604 43	05/15/85
<u>RS</u>	A116	4,692,141	09/08/87	Mahurkar	604 43	01/29/86
<u>RS</u>	A117	4,701,159	10/20/87	Brown et al.	604 43	11/07/85
<u>RS</u>	A118	4,714,460	12/22/87	Calderon	604 28	06/06/86
<u>RS</u>	A119	4,717,379	01/05/88	Ekholmer	604 43	07/01/85
<u>RS</u>	A120	4,748,984	06/07/88	Patel	<del>128</del> <del>658</del>	05/29/87
<u>RS</u>	A121	4,753,640	06/28/88	Nichols et al.	604 247	10/06/86
<u>RS</u>	A122	4,756,303	07/12/88	Kawashima et al.	<del>128</del> <del>6</del>	09/26/86
<u>RS</u>	A123	4,762,120	08/09/88	Hussein	<del>128</del> <del>6</del>	06/08/87
<u>RS</u>	A124	4,763,654	08/16/88	Jang	<del>128</del> <del>344</del>	09/10/86
<u>RS</u>	A125	4,769,005	09/06/88	Ginsburg et al.	604 164	08/06/87
<u>RS</u>	A126	4,772,268	09/20/88	Bates	604 43	11/03/86
<u>RS</u>	A127	4,782,834	11/08/88	Maguire et al.	<del>128</del> <del>344</del>	01/06/87
<u>RS</u>	A128	4,790,813	12/13/88	Kensey	604 22	05/30/86
<u>RS</u>	A129	4,795,439	01/03/89	Guest	604 43	04/08/88
<u>RS</u>	A130	4,801,297	01/31/89	Mueller	604 280	06/01/84
<u>RS</u>	A131	4,813,429	03/21/89	Eshel et al.	<del>128</del> <del>736</del>	05/05/87
<u>RS</u>	A132	4,822,345	03/16/88	Danforth	604 282	04/18/89
<u>RS</u>	A133	4,838,881	06/13/89	Bennett	604 280	09/29/88
<u>RS</u>	A134	4,842,582	06/27/89	Mahurkar	604 43	04/19/88
<u>RS</u>	A135	4,867,742	08/07/87	Calderon	604 28	09/19/89
<u>RS</u>	A136	4,894,057	01/16/90	Howes	604 280	06/19/87

Examiner: *Ray Stryker*

Date Considered:

2/3/97

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Applicant: GEOFFREY S. MARTIN *etal*  
 Serial No.: ~~08/481,169~~ 09/139,705  
 Filing Date: June 7, 1995  
 For: MULTIPLE LUMEN CATHETER

Att'y Docket No. 13799.3.1

Art Unit: 3306

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Examiner Initial*	Patent Number	Issue Date	Name	Class	Sub Class	Filing Date
<u>RS</u>	A137	4,898,591	02/06/90	Jang et al.	604 282	08/09/88
<u>RS</u>	A138	4,934,340	06/19/90	Ebling et al.	<del>120</del> 6	06/08/89
<u>RS</u>	A139	4,961,809	10/09/90	Martin	604 280	04/21/88
<u>RS</u>	A140	4,968,307	11/06/90	Dake et al.	604 280	04/10/89
<u>RS</u>	A141	4,995,865	02/26/91	Gahara et al.	604 43	06/09/89
<u>RS</u>	A142	5,004,455	04/02/91	Greenwood et al.	604 43	07/17/89
<u>RS</u>	A143	5,007,897	04/16/91	Kalb et al.	604 43	05/30/89
<u>RS</u>	A144	5,009,636	04/23/91	Wortley et al.	604 43	12/06/89
<u>RS</u>	A145	5,015,232	05/14/91	Maglinte	604 96	04/20/89
<u>RS</u>	A146	5,019,057	05/28/91	Truckai	604 282	10/23/89
<u>RS</u>	A147	5,021,044	06/04/91	Sharkawy	604 53	01/30/89
<u>RS</u>	A148	5,057,073	10/15/91	Martin	604 43	06/26/90
<u>RS</u>	A149	5,135,599	08/04/92	Martin et al.	<del>136</del> 294	05/13/91
<u>RS</u>	A150	5,167,623	12/01/92	Cianci et al.	604 43	12/27/90
<u>RS</u>	A151	5,207,650	05/04/93	Martin	604 173	03/19/92
<u>RS</u>	A152	5,221,255	06/22/93	Mahurkar et al.	604 43	10/16/91
<u>RS</u>	A153	5,221,256	06/22/93	Mahurkar	604 43	02/10/92
<u>RS</u>	A154	5,236,417	08/17/93	Wallis	604 164	09/22/92
<u>RS</u>	A155	5,451,206	09/19/95	Young	604 43	09/20/94

Examiner: Roy Stright

Date Considered:

2/3/97

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Applicant: GEOFFREY S. MARTIN *et al*  
 Serial No.: ~~08/401,169~~ 09/139,705  
 Filing Date: June 7, 1995  
 For: MULTIPLE LUMEN CATHETER *27*

Att'y Docket No. 13799.3.1

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Foreign Patent Documents

Examiner Initial*	Document Number	Publ. Date	Country or Patent Office	Sub Class	Class	Trans- lation
<u>RS</u>	A156	0,834,211	02/02/76	Belgium	<del>120</del> <del>221</del>	No
<u>RS</u>	A157	0,050,089	08/09/82	Canada	<del>120</del>	---
<u>RS</u>	A158	0,960,932	01/14/75	Canada	<del>120</del> <del>127</del>	---
<u>RS</u>	A159	1,092,927	01/06/81	Canada	<del>120</del> <del>127</del>	---
<u>RS</u>	A160	1,112,533	11/17/81	Canada	<del>52</del> <del>128</del>	---
<u>RS</u>	A161	1,150,122	07/19/83	Canada	<del>120</del> <del>81</del>	---
<u>RS</u>	A162	1,167,727	05/22/84	Canada	<del>120</del> <del>80</del>	---
<u>RS</u>	A163	0,025,704 B1	10/19/83	Europe	<del>25/00</del> <del>A61M</del>	---
<u>RS</u>	A164	0,036,642 A2	09/30/81	Europe	<del>25/00</del> <del>A61M</del>	No
<u>RS</u>	A165	0,079,719 A1	05/25/83	Europe	<del>5/00</del> <del>A61M</del>	---
<u>RS</u>	A166	0,161,863 B1	07/25/90	Europe	<del>25/00</del> <del>A61M</del>	---
<u>RS</u>	A167	0,322,225 A2	12/21/88	Europe	<del>25/00</del> <del>A61M</del>	---
<u>RS</u>	A168	0,333,308 A2	09/20/89	Europe	<del>25/00</del> <del>A61M</del>	---
<u>RS</u>	A169	0,381,062 B1	03/23/94	Europe	<del>25/00</del> <del>A61M</del>	---
<u>RS</u>	A170	0,440,992 A2	12/31/90	Europe	<del>25/00</del> <del>A61M</del>	---
<u>RS</u>	A171	0,555,780 A2	02/05/93	Europe	<del>25/00</del> <del>A61M</del>	---
<u>RS</u>	A172	0,804,309	10/21/36	France	<del>A61b</del> <del>A61M</del>	No
<u>RS</u>	A173	1,285,953	01/22/62	France	<del>A61b</del> <del>A61M</del>	No
<u>RS</u>	A174	1,508,959	01/22/62	France	<del>A61b</del> <del>A61M</del>	No
<u>RS</u>	A175	2,201,908	10/10/72	France	<del>25/00</del> <del>A61M</del>	No
<u>RS</u>	A176	2,285,148	09/20/74	France	<del>01/00</del> <del>A01M</del>	No
<u>RS</u>	A177	2,297,640	01/15/75	France	<del>25/00</del> <del>A61M</del>	No

Examiner:

Date Considered:

*For Straight* *2/3/97*  
 \*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant: GEOFFREY S. MARTIN *et al*  
 Serial No.: ~~08/481,169~~ 09/139,705  
 Filing Date: June 7, 1995  
 For: MULTIPLE LUMEN CATHETER

Att'y Docket No. 13799.3.1

Art Unit: 3306

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Examiner Initial*	Document Number	Publ. Date	Country or Patent Office	Sub Class	Class	Trans- lation
<u>RS</u>	A178	2,513,520	04/01/83	France	<del>25/00</del> A61M	No
<u>RS</u>	A179	2,530,958	07/29/82	France	<del>A61M</del> 25/00	Yes
<u>RS</u>	A180	2,565,491	06/08/84	France	<del>25/00</del> A61M	No
<u>RS</u>	A181	MR 19 346	04/15/82	Germany	<del>421</del> 82	Yes
<u>RS</u>	A182	0,195,412	05/16/07	Germany	<del>30</del> 17	No
<u>RS</u>	A183	2,447,804 A1	10/08/74	Germany	<del>5/14</del> A61M	No
<u>RS</u>	A184	3,130,454 C2	04/04/85	Germany	<del>5/14</del> A61M	No
<u>RS</u>	A185	3,506,738 A1	11/05/85	Germany	<del>53/00</del> B39 C	No
<u>RS</u>	A186	3,112,762 C2	06/09/88	Germany	<del>25/00</del> A61M	No
<u>RS</u>	A187	54-34,587	08/22/77	Japan	<del>5/14</del> A61M	Yes
<u>RS</u>	A188	55-40,512	09/16/78	Japan	<del>5/14</del> A61M	Yes
<u>RS</u>	A189	1,419,702	12/31/75	United Kingdom	<del>A61M</del> A61B	---
<u>RS</u>	A190	2,043,449	10/08/80	United Kingdom	<del>25/00</del> A61M	---

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- \_\_\_\_\_ A191 Arrow International, Inc., 510(k) Notification Multi-Lumen M.I.S.<sup>TM</sup> Catheterization System (February 1982).
- \_\_\_\_\_ A192 Arrow International, Inc., 510(k) Notification Arrow Central Venous Multi-Lumen Catheter with Flex Tip (May 5, 1986).
- \_\_\_\_\_ A193 Arrow International, Inc., 510(k) Notification Arrow 10 GA Two Lumen Intravenous Catheter/22G Needle (May 15, 1986).
- RS A194 American Edwards Laboratories, EDSLAB Thermodilution and Monitoring Catheters (circa 1982).
- RS A195 American Edwards Laboratories, The EDSLAB 6F Thermodilution Catheter (May 1980).

Examiner:

Date Considered:

*[Signature]* 2/13/97

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Applicant: GEOFFREY S. MARTIN *et al*Serial No.: ~~08/481,169~~ 09/139,705

Att'y Docket No. 13799.3.1

Filing Date: June 7, 1996/1995

For: MULTIPLE LUMEN CATHETER

Art Unit: ~~3303~~  
3306

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RSA196 *Dr. J. P. American Edwards Laboratories, The EDSLAB 7F Thermodilution Catheter*  
(July 1980).RSA197 *Dr. J. P. American Edwards Laboratories, Thermodilution Catheter Drawings*  
(September 2, 1976).RSA198 *Dr. J. P. Eric A. Bour et al., Experience With the Double Lumen Silastic® Catheter*  
*for Hemoaccess, Surgery, Gynecology & Obstetrics* 33 (July 1990).\* RSA199 Barry M. Brenner & Floyd C. Rector, Jr., *The Kidney* Vol. II, page 1684  
1684 (1976).RSA200 *Dr. J. P. Todd L. Demmy & David V. Feliciano, A Modified Technique for Changing*  
*Triple-Lumen Catheters, Surgical Rounds* 58 (Nov. 1988).RSA201 *Dr. J. P. Alan C. Geiss & Patrick P. Montefusco, Placement of an Implantable*  
*Percutaneous Permanent Triple-Lumen Catheter, 149 The American Journal of*  
*Surgery* 395 (Mar. 1985).RSA202 *Dr. J. P. Harold W. Horowitz et al., Central Catheter-Related Infections:*  
*Comparison of Pulmonary Artery Catheters and Triple Lumen Catheters for*  
*the Delivery of Hyperalimentation in a Critical Care Setting, 14 J. of*  
*Parenteral and Enteral Nutrition* 588 (Nov./Dec. 1990).\* RSA203 Arrow International, Inc., *Anesthesia and Critical Care Catheterization*  
*Products. Hospital Price Schedule* (May 1988).RSA204 *Dr. J. P. Jeffrey L. Kaufman et al., Clinical Experience with the Multiple Lumen*  
*Central Venous Catheter, 10 J. of Parenteral and Enteral Nutrition* 487  
(Sept./Oct. 1986).RSA205 *Dr. J. P. Jean-Jacques Lanore et al., Hemodialysis for Acute Renal Failure in*  
*Patients with Hematologic Malignancies, 19 Critical Care Medicine* 346  
(Mar. 1991).RSA206 *Dr. J. P. Sakharan D. Mahurkar & G. Dunea, Abstract of Parallel Lumen Continuous*  
*Flow Single Needle for Hemodialysis, in 5 Abstracts, ASAIO 22nd annual*  
*Meeting, San Francisco, Cal. (April 1-3, 1976).*RSA207 *Dr. J. P. Sakharan D. Mahurkar, The Fluid Mechanics of Hemodialysis Catheters, XXXI*  
*Trans. Am. Soc. Artif. Intern. Organs* 757 (1985).RSA208 *Dr. J. P. Mary C. McCarthy et al., Prospective Evaluation of Single and Triple*  
*Lumen Catheters in Total Parenteral Nutrition, 11 J. of Parenteral and*  
*Enteral Nutrition* 259 (June 1987).RSA209 *Dr. J. P. Henry D. McIntosh et al., Double Lumen Catheter for Use With Artificial*  
*Kidney, 169 J.A.M.A.* 137 (Feb. 21, 1959).

2 references with

star are not

duplicates

Examiner: *Dr. J. P. Stigler*\*EXAMINER: Initial if reference  
with MPEP 609; draw line through  
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and not considered.

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Applicant: GEOFFREY S. MARTIN *et al*  
Serial No.: ~~087481,169~~ 091139,705  
Filing Date: June 7, 1996 <sup>1995</sup>  
For: MULTIPLE LUMEN CATHETER

Att'y Docket No. 13799.3.1

Art Unit: ~~2305~~  
3306

- RS A210 <sup>Dep</sup> Mitchell N. Ross et al., Comparison of Totally Implanted Reservoirs with External Catheters as Venous Access Devices in Pediatric Oncologic Patients, Surgery, Gynecology & Obstetrics 141 (Aug. 1988).
- RS A211 <sup>W</sup> W. B. Saunders, Dorland's Illustrated Medical Dictionary 274 (25th ed. 1974).
- RS A212 <sup>S</sup> Seigi Tsuchida et al., Single Two-Lumen Cannula Dialysis, 114 J. Exp. Med. 189 (1974).

## References Cited by Applicants

While the filing of Information Disclosure Statements is voluntary, the procedure is governed by the guidelines of Section 609 of the Manual of Patent Examining Procedure and 37 C.F.R. §§ 1.97 and 1.98. To be considered a proper Information Disclosure Statement, Form PTO-1449 shall be accompanied by a copy of each listed patent or publication or other item of information and a translation of the pertinent portions of foreign documents (if an existing translation is readily available to the applicant), an explanation of relevance of each reference not in the English language, and should be submitted in a timely manner as set out in MPEP Sec. 609.

Examiners will consider all citations submitted in conformance with 37 C.F.R. § 1.98 and MPEP Sec. 609 and place their initials adjacent the citations in the spaces provided on this form. Examiners will also initial citations not in conformance with the guidelines which may have been considered. A reference may be considered by the Examiner for any reason whether or not the citation is in full conformance with the guidelines. A line will be drawn through a citation if it is not in conformance with the guidelines AND has not been considered. A copy of the submitted form, as reviewed by the Examiner, will be returned to the applicant with the next communication. The original of the form will be entered into the application file.

Each citation initialed by the Examiner will be printed on the issued patent in the same manner as references cited by the Examiner on Form PTO-892.

The reference designations "A1", "A2", etc. (referring to Applicant's reference 1, Applicant's reference 2, etc.) will be used by the Examiner in the same manner as Examiner's reference designations "A", "B", "C", etc. on Office Action Form PTO-1142.

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Docket No.: 13799.3.1

Examiner: Tom Stultz Date Considered: 2/3/97

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449

Att'y Docket No. 2409.3273.2US

Applicant: GEOFFREY S. MARTIN *et al*

Prior Art Unit: 3306

Continuation Application of:

Serial No.: ~~481,169~~ 09/139,705

For: MULTIPLE LUMEN CATHETER

Filing Date: June 7, 1995

Prior Examiner: Ronald K. Stright, Jr.

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INFORMATION DISCLOSURE CITATIONS MADE BY APPLICANTU.S. Patent Documents

Examiner Initial*	Patent Number	Issue Date	Name	Class	Sub Class	Filing Date
<i>RS</i>	A1	Re.31,873	Howes	<del>128</del>	<del>674</del>	01/19/83
	A2	Des.272,651	Mahurkar	D24	54	11/02/81
	A3	0,550,238	Allen, Jr.			05/20/1895
	A4	1,696,018	Schellberg			07/10/26
<i>per MIS</i>	A5	1,922,084	<del>04/24/31</del> 68/1431 Gerow	128	349	08/15/33
	A6	2,173,527	Agayoff	128	349	02/23/37
	A7	2,175,726	Gebauer	128	349	11/26/38
<i>per MIS</i>	A8	2,230,218	<del>06/02/38</del> 02/1941 Asche	128	276	02/04/41
	A9	2,409,343	<del>04/05/43</del> 10/1946 Curtis	128	214	10/15/46
	A10	2,473,742	Auzin	128	349	12/28/44
	A11	2,561,569	Flynn	18	13	01/10/47
	A12	2,564,977	Quang Hsi Hu	128	218	01/19/49
	A13	2,590,895	Scarpellino	128	227	11/21/49
<i>per MIS</i>	A14	2,819,718	<del>07/16/53</del> 01/1958 Goldmtan	128	350	01/14/58
	A15	2,936,761	Snyder	128	349	04/25/58
	A16	3,042,045	Sheridan	128	349	07/02/58
	A17	3,055,361	Ballard	128	214	04/22/60
	A18	3,064,653	Coanda	128	348	06/04/59
	A19	3,174,890	Goyke	156	272	07/10/61
	A20	3,322,590	Clark	156	273	03/09/64
<i>RS</i>	A21	3,324,854	Weese	128	215	04/23/64

Examiner:

Date Considered:

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Form PTO-1449

Att'y Docket No. 2409.3273.2US

Applicant: GEOFFREY S. MARTIN *et al*

Prior Art Unit: 3306

Continuation Application of:

Serial No.: 481,169

For: MULTIPLE LUMEN CATHETER

Filing Date: June 7, 1995

Prior Examiner: Ronald K. Stright, Jr.

Examiner Initial*	Patent Number	Issue Date	Name	Class	Sub Class	Filing Date	
RS	A22	3,331,371	07/18/67	Rochi et al	128	349	03/09/65
	A23	3,359,974	12/26/67	Khalil	128	205	10/07/63
	A24	3,370,587	02/27/68	Vizcarra	128	214.4	07/17/62
	A25	3,394,705	07/30/68	Abramson	128	349	10/22/65
	A26	3,411,506	11/19/68	Velasco	128	325	04/11/66
	A27	3,437,088	04/08/69	Bielinski	128	2	12/01/66
	A28	3,448,739	06/10/69	Stark et al.	128	205	08/22/66
	A29	3,452,756	07/01/69	Harautuneian	128	349	10/10/66
	A30	3,467,180	09/16/69	Pensotti	165	180	03/30/66
	A31	3,469,579	09/30/69	Hubert	128	214.4	05/05/67
	A32	3,528,869	09/15/70	Dereniuk dup	155	294	02/28/68
	A33	3,593,713	07/20/71	Bogoff et al	128	246	07/12/68
	A34	3,625,793	12/07/71	Sheridan et al	155	229	09/23/69
	A35	3,634,924	01/18/72	Blake et al. dup	29	447	04/20/70
	A36	3,720,210	03/13/73	Dietrich	128	214.4	03/03/71
	A37	3,726,281	04/10/73	Norton et al.	128	349	12/08/71
	A38	3,746,003	07/17/73	Blake et al	128	349B	09/23/71
	A39	3,746,033	07/17/73	Keiper, II	137	205	08/05/71
	A40	3,771,527	11/13/73	Ruisi	128	350 R	08/16/71
	A41	3,804,097	04/16/74	Rudie	128	350 R	12/14/72
	A42	3,805,794	04/23/74	Schlesinger dup	128	349	12/18/72
✓	A43	3,817,389	06/18/74	Weichselbaum	210	448	01/15/73
RS	A44	3,848,602	11/19/74	Gutrick	128	344	04/19/72

Examiner: *RS*Date Considered: *9/27/99*

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant: GEOFFREY S. MARTIN *et al*  
Continuation Application of:  
Serial No.: 481,169  
For: MULTIPLE LUMEN CATHETER  
Filing Date: June 7, 1995  
Prior Examiner: Ronald K. Stright, Jr.

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Examiner Initial*	Patent Number	Issue Date	Name	Class	Sub Class	Filing Date
<u>RS</u>	A45	3,885,567	05/27/75	Ross	128 278	02/20/73
	A46	3,888,249	06/10/75	Spencer	128 214 R	11/02/73
	A47	3,976,529	08/24/76	Weichselbaum	156 272	01/31/74
	A48	3,983,203	09/28/76	Corbett	264 150	11/16/73
	A49	3,995,623	12/07/76	Blake et al.	128 206	02/11/76
	A50	4,003,665	01/18/77	Dreyer et al.	401 259	03/20/75
	A51	4,004,588	01/25/77	Alexander	128 241	08/25/75
	A52	4,016,879	04/12/77	Mellor	128 214.4	04/07/75
	A53	4,027,668	06/07/77	Dunn	128 214 R	12/10/75
	A54	4,037,599	07/26/77	Raulerson	128 214.4	01/26/76
	A55	4,050,667	09/27/77	Kossett	249 82	11/26/75
	A56	4,057,065	11/08/77	Thow	128 348	06/21/76
	A57	4,063,980	12/20/77	Trunnell	156 165	05/19/75
	A58	4,072,146	02/07/78	Howes	128 205 D	09/08/76
	A59	4,072,153	02/07/78	Swartz	128 348	03/03/76
	A60	4,098,275	07/04/78	Consalvo	128 214 R	12/20/76
	A61	4,099,528	07/11/78	Sorenson et al.	128 214.40	2/17/77
	A62	4,100,246	07/11/78	Frisch	264 230	06/21/76
	A63	4,134,402	01/16/79	Mahurkar	128 214 R	07/05/77
	A64	4,168,703	09/25/79	Kenigsberg	128 748	07/18/77
	A65	4,171,943	10/23/79	Tschanz et al.	425 392	01/25/78
	A66	4,178,936	12/12/79	Newcomb	128 349 B	07/27/77
<u>RS</u>	A67	4,180,068	12/25/79	Jacobsen et al.	128 214 R	04/13/78

Examiner:

*[Signature]*

Date Considered:

9/27/99

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Form PTO-1449

Att'y Docket No. 2409.3273.2US

Applicant:

GEOFFREY S. MARTIN *et al*

Prior Art Unit: 3306

Continuation Application of:

Serial No.:

~~481,169~~ 09/13/91, 705

For:

MULTIPLE LUMEN CATHETER

Filing Date:

June 7, 1995

Prior Examiner:

Ronald K. Stright, Jr.

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Examiner Initial*	Patent Number	Issue Date	Name	Sub Class	Class	Filing Date
<i>RS</i>	A68	4,180,076	12/25/79	Betancourt	128 349	01/13/78
	A69	4,198,984	04/22/80	Taylor	128 349 BV	05/04/78
	A70	4,202,332	05/13/80	Tersteegen <i>et al</i>	128 214.4	01/05/78
	A71	4,203,436	05/20/80	Grimrud	128 214 R	03/28/78
	A72	4,210,479	07/01/80	Fabisiewicz	156 273	06/14/78
	A73	4,214,593	07/29/80	Imbruce et al.	128 748	09/18/78
	A74	4,217,895	08/19/80	Sagae et al.	128 214.4	05/26/78
	A75	4,248,224	02/03/81	Jones	128 214	08/01/78
	A76	4,251,305	02/17/81	Becker et al.	604 103	11/01/78
	A77	4,268,338	05/19/81	Peterson	156 251	08/20/79
	A78	4,270,535	06/02/81	Bogue et al.	128 214.4	10/18/79
	A79	4,299,226	11/10/81	Banka	128 344	08/08/79
	A80	4,309,994	01/12/82	Grunwald	128 214 R	02/25/80
	A81	4,336,036	06/22/82	Leeke et al.	55 159	01/08/81
	A82	4,352,354	10/05/82	Ujihara	128 214 R	03/04/81
	A83	4,354,495	10/19/82	Bodicky	128 348	10/30/80
	A84	4,364,394	12/21/82	Wilkinson	604 96	11/24/80
	A85	4,384,186	05/17/83	Burt	219 10.81	07/23/81
	A86	4,385,631	05/31/83	Uthmann	604 284	03/18/81
	A87	4,390,383	06/28/83	van Dongeren	156 294	03/25/81
	A88	4,392,848	07/12/83	Lucas et al.	604 53	06/25/79
	A89	4,398,910	08/16/83	Blake et al.	604 93	02/26/81
<i>RS</i>	A90	4,403,983	09/13/83	Edelman et al.	604 43	11/06/81

Examiner:

*Tom Sgo*

Date Considered:

9/29/99

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Form PTO-1449

Att'y Docket No. 2409.3273.2US

Applicant:

GEOFFREY S. MARTIN *et al*

Prior Art Unit: 3306

Continuation Application of:

Serial No.: ~~481,169~~ 09/139,705

For:

MULTIPLE LUMEN CATHETER

Filing Date:

June 7, 1995

Prior Examiner:

Ronald K. Stright, Jr.

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Examiner Initial*	Patent Number	Issue Date	Name	Class	Sub Class	Filing Date	
RS	A91	4,403,985	09/13/83	Boretos	604	53	05/12/81
	A92	4,404,159	09/13/83	McFarlane	264	296	03/16/81
	A93	4,405,313	09/20/83	Sisley et al.	604	43	01/29/82
	A94	4,406,656	09/27/83	Hattler et al.	604	280	06/01/81
	A95	4,419,095	12/06/83	Nebergall et al.	604	96	05/14/80
	A96	4,425,177	01/10/84	Shinno	<del>156</del>	<del>272.2</del>	09/28/82
	A97	4,451,252	05/29/84	Martin	604	43	07/24/81
	A98	4,484,585	11/27/84	Baier	<del>128</del>	<del>748</del>	09/02/82
	A99	4,493,696	01/15/85	Uldall	604	43	05/04/84
	A100	4,496,353	01/29/85	Overland et al.	604	272	09/09/82
	A101	4,543,087	09/24/85	Sommercom et al.	604	43	11/14/83
	A102	4,545,390	10/08/85	Leary	<del>128</del>	<del>772</del>	09/22/82
	A103	4,551,292	11/05/85	Fletcher et al.	264	139	04/05/84
	A104	4,568,329	02/04/86	Mahurkar	604	43	10/01/84
	A105	4,573,966	03/04/86	Weikl et al.	604	53	11/24/82
	A106	4,583,968	04/22/86	Mahurkar	604	280	08/15/84
	A107	4,619,643	10/28/86	Bai	604	43	06/18/84
	A108	4,623,327	11/18/86	Mahurkar	604	4	02/12/85
	A109	4,643,711	02/17/87	Bates	604	4	05/25/84
	A110	4,661,300	04/28/87	Daugherty	264	40.6	03/11/86
	A111	4,668,221	05/26/87	Luther	604	168	01/27/85
	A112	4,668,225	05/26/87	Russo et al.	604	280	12/23/85
RS	A113	4,670,009	06/02/87	Bullock	<del>604</del>	<del>280</del>	<del>04/16/85</del>

Examiner:

Date Considered:

9/27/95

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Form PTO-1449

Att'y Docket No. 2409.3273.2US

Applicant:

GEOFFREY S. MARTIN *etal*

Prior Art Unit: 3306

Continuation Application of:

Serial No.:

~~481,169~~

09/139,705

For:

MULTIPLE LUMEN CATHETER

Filing Date:

June 7, 1995

Prior Examiner:

Ronald K. Stright, Jr.

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Examiner Initial*	Patent Number	Issue Date	Name	Class	Sub Class	Filing Date
<i>CS</i>	A114	4,681,564	07/21/87	Landreneau	604 280	10/21/85
	A115	4,682,978	07/28/87	Martin	604 43	05/15/85
	A116	4,692,141	09/08/87	Mahurkar	604 43	01/29/86
	A117	4,701,159	10/20/87	Brown et al.	604 43	11/07/85
	A118	4,714,460	12/22/87	Calderon	604 28	06/06/86
	A119	4,717,379	01/05/88	Ekholmer	604 43	07/01/85
	A120	4,748,984	06/07/88	Patel	<del>128</del> 658	05/29/87
	A121	4,753,640	06/28/88	Nichols et al.	604 247	10/06/86
	A122	4,756,303	07/12/88	Kawashima et al.	<del>128</del> 6	09/26/86
	A123	4,762,120	08/09/88	Hussein	<del>128</del> 6	06/08/87
	A124	4,763,654	08/16/88	Jang	<del>128</del> 344	09/10/86
	A125	4,769,005	09/06/88	Ginsburg et al.	604 164	08/06/87
	A126	4,772,268	09/20/88	Bates	604 43	11/03/86
	A127	4,782,834	11/08/88	Maguire et al.	<del>128</del> 344	01/06/87
	A128	4,790,813	12/13/88	Kensey	604 22	05/30/86
	A129	4,795,439	01/03/89	Guest	604 43	04/08/88
	A130	4,801,297	01/31/89	Mueller	604 280	06/01/84
	A131	4,813,429	03/21/89	Eshel et al.	<del>128</del> 736	05/05/87
	A132	4,822,345	03/16/88	Danforth	604 282	04/18/89
	A133	4,838,881	06/13/89	Bennett	604 280	09/29/88
	A134	4,842,582	06/27/89	Mahurkar	604 43	04/19/88
<i>CS</i>	A135	4,867,742	08/07/87	Calderon	604 28	09/19/89
<i>CS</i>	A136	4,894,057	01/16/90	Howes	604 280	06/19/87

Examiner:

*Ron Stright*

Date Considered:

9/27/99

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Form PTO-1449

Att'y Docket No. 2409.3273.2US

Applicant: GEOFFREY S. MARTIN *et al*

Prior Art Unit: 3306

Continuation Application of:

Serial No.: ~~481,169~~ 07/139,705

For: MULTIPLE LUMEN CATHETER

Filing Date: June 7, 1995

Prior Examiner: Ronald K. Stright, Jr.

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Examiner Initial*	Patent Number	Issue Date	Name	Class	Sub Class	Filing Date
<i>BS</i>	A137	4,898,591	02/06/90	Jang et al.	604 282	08/09/88
	A138	4,934,340	06/19/90	Ebling et al.	<del>128</del> 6	06/08/89
	A139	4,961,809	10/09/90	Martin	604 280	04/21/88
	A140	4,968,307	11/06/90	Dake et al.	604 280	04/10/89
	A141	4,995,865	02/26/91	Gahara et al.	604 43	06/09/89
	A142	5,004,455	04/02/91	Greenwood et al.	604 43	07/17/89
	A143	5,007,897	04/16/91	Kalb et al.	604 43	05/30/89
	A144	5,009,636	04/23/91	Wortley et al.	604 43	12/06/89
	A145	5,015,232	05/14/91	Maglinte	604 96	04/20/89
	A146	5,019,057	05/28/91	Truckai	604 282	10/23/89
	A147	5,021,044	06/04/91	Sharkawy	604 53	01/30/89
	A148	5,057,073	10/15/91	Martin	604 43	06/26/90
	A149	5,135,599	08/04/92	Martin et al.	<del>156</del> 294	05/13/91
	A150	5,167,623	12/01/92	Cianci et al.	604 43	12/27/90
	A151	5,195,962	03/23/93	Martin et al.	604 43	12/22/88
	A152	5,207,650	05/04/93	Martin	604 173	03/19/92
	A153	5,221,255	06/22/93	Mahurkar et al.	604 43	10/16/91
	A154	5,221,256	06/22/93	Mahurkar	604 43	02/10/92
	A155	5,236,417	08/17/93	Wallis	604 164	09/22/92
<i>BS</i>	A156	5,472,417	12/05/95	Martin et al.	604 43	03/03/94
<i>BS</i>	A157	5,451,206	09/19/95	Young	604 43	09/20/94

Examiner:

*Tom Stright*

Date Considered:

*9/27/99*

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Form PTO-1449

Att'y Docket No. 2409.3273.2US

Applicant:

GEOFFREY S. MARTIN *et al*

Prior Art Unit: 3306

Continuation Application of:

Serial No.: ~~481,169~~ 09/139,705

For: MULTIPLE LUMEN CATHETER

Filing Date: June 7, 1995

Prior Examiner: Ronald K. Stright, Jr. *LL*Foreign Patent Documents

Examiner Initial*	Document Number	Publ. Date	Country or Patent Office	Sub Class	Class	Trans- lation
<i>RS</i>	A158	0,834,211	02/02/76	Belgium	<del>128</del> 221	No
	A159	0,050,089	08/09/82	Canada	<del>128</del> —	—
	A160	0,960,932	01/14/75	Canada	<del>128</del> 127	—
	A161	1,092,927	01/06/81	Canada	<del>128</del> 127	—
	A162	1,112,533	11/17/81	Canada	<del>52</del> 128	—
	A163	1,150,122	07/19/83	Canada	<del>128</del> 81	—
	A164	1,167,727	05/22/84	Canada	<del>128</del> 80	—
	A165	0,025,704 B1	10/19/83	Europe	<del>25/00</del> A61M	—
	A166	0,036,642 A2	09/30/81	Europe	<del>25/00</del> A61M	No
	A167	0,079,719 A1	05/25/83	Europe	<del>5/00</del> A61M	—
	A168	0,161,863 B1	07/25/90	Europe	<del>25/00</del> A61M	—
	A169	0,322,225 A2	12/21/88	Europe	<del>25/00</del> A61M	—
	A170	0,333,308 A2	09/20/89	Europe	<del>25/00</del> A61M	—
	A171	0,381,062 B1	03/23/94	Europe	<del>25/00</del> A61M	—
	A172	0,440,992 A2	12/31/90	Europe	<del>25/00</del> A61M	—
	A173	0,555,780 A2	02/05/93	Europe	<del>25/00</del> A61M	—
	A174	0,804,309	10/21/36	France	<del>A61b</del> A61M	No
	A175	1,285,953	01/22/62	France	<del>A61b</del> A61M	No
	A176	1,508,959	01/22/62	France	<del>A61b</del> A61M	No
	A177	2,201,908	10/10/72	France	<del>25/00</del> A61M	Yes
<i>RS</i>	A178	2,285,148	09/20/74	France	<del>01/00</del> A61M	No
<i>RS</i>	A179	2,297,640	01/15/75	France	<del>25/00</del> A61M	No

Examiner:

Date Considered:

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Form PTO-1449

Att'y Docket No. 2409.3273.2US

Applicant: GEOFFREY S. MARTIN *et al*

Prior Art Unit: 3306

Continuation Application of:

Serial No.: ~~481,169~~ *CA 1139,765*For: MULTIPLE LUMEN CATHETER *60000*

Filing Date: June 7, 1995

Prior Examiner: Ronald K. Stright, Jr.

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Examiner Initial*	Document Number	Publ. Date	Country or Patent Office	Sub Class	Class	Trans- lation
<i>RS</i>	A180	2,513,520	04/01/83	France	<del>25/00</del> <del>A61M</del>	No
	A181	2,530,958	07/29/82	France	<del>A61M</del> <del>25/00</del>	Yes
	A182	2,565,491	06/08/84	France	<del>25/00</del> <del>A61M</del>	No
	A183	MR 19 346	04/15/82	Germany	<del>421</del> <del>82</del>	Yes
	A184	0,195,412	05/16/07	Germany	<del>30</del> <del>17</del>	No
	A185	2,447,804 A1	10/08/74	Germany	<del>5/14</del> <del>A61M</del>	No
	A186	3,130,454 C2	04/04/85	Germany	<del>5/14</del> <del>A61M</del>	No
	A187	3,506,738 A1	11/05/85	Germany	<del>53/00</del> <del>B29 C</del>	No
	A188	3,112,762 C2	06/09/88	Germany	<del>25/00</del> <del>A61M</del>	No
	A189	54-34,587	08/22/77	Japan	<del>5/14</del> <del>A61M</del>	Yes
	A190	55-40,512	09/16/78	Japan	<del>5/14</del> <del>A61M</del>	Yes
	A191	1,419,702	12/31/75	United Kingdom	<del>A61M</del> <del>A61B</del>	—
<i>RS</i>	A192	2,043,449	10/08/80	United Kingdom	<del>25/00</del> <del>A61M</del>	—

Other Documents

<i>RS</i>	A193	Arrow International, Inc., <u>510(k) Notification Multi-Lumen M.L.S.™ Catheterization System</u> (April 14, 1982).
	A194	Arrow International, Inc., <u>510(k) Notification Arrow Central Venous Multi-Lumen Catheter with Flex Tip</u> (August 25, 1986).
	A195	Arrow International, Inc., <u>Arrow®-Howes™ Multi-Lumen Central Venous Catheterization Kit</u> (circa 1986).
	A196	Arrow International, Inc., <u>The Arrow Multi-Lumen Catheter System</u> (circa 1986)
	A197	Arrow International, Inc., <u>Anesthesia and Critical Care Catheterization Products, Hospital Price Schedule</u> (May 1988).
	A198	American Edwards Laboratories, <u>EDSLAB Thermodilution and Monitoring Catheters</u> (circa 1982).
<i>RS</i>	A199	American Edwards Laboratories, <u>The EDSLAB 6F Thermodilution Catheter</u> (May 1980).

Examiner: *John S. A.*Date Considered: *9/27/99*

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Form PTO-1449

Att'y Docket No. 2409.3273.2US

Applicant:

GEOFFREY S. MARTIN *et al*

Prior Art Unit: 3306

Continuation Application of:

Serial No.:

481,169 09/139,705

For:

MULTIPLE LUMEN CATHETER

Filing Date:

June 7, 1995

Prior Examiner:

Ronald K. Stright, Jr.

30

- RS A200 American Edwards Laboratories, The EDSLAB 7F Thermodilution Catheter (July 1980).
- A201 American Edwards Laboratories, Thermodilution Catheter Drawings (September 2, 1976).
- A202 Eric A. Bour et al., Experience With the Double Lumen Silastic® Catheter for Hemoaccess, Surgery, Gynecology & Obstetrics 33 (July 1990).
- ~~A203 Barry M. Brenner & Floyd C. Rector, Jr., The Kidney 1684 (1976).~~
- A204 Todd L. Demmy & David V. Feliciano, A Modified Technique for Changing Triple-Lumen Catheters, Surgical Rounds 58 (Nov. 1988).
- A205 Stephen P. Gatt, A Quadruple-Lumen Intravenous Infusion Catheter, 11 Anaesth Intens Care 261-62 (1983).
- A206 Alan C. Geiss & Patrick P. Montefusco, Placement of an Implantable Percutaneous Permanent Triple-Lumen Catheter, 149 The American Journal of Surgery 395 (Mar. 1985).
- A207 Harold W. Horowitz et al., Central Catheter-Related Infections: Comparison of Pulmonary Artery Catheters and Triple Lumen Catheters for the Delivery of Hyperalimentation in a Critical Care Setting, 14 J. of Parenteral and Enteral Nutrition 588 (Nov/Dec. 1990).
- A208 Jeffrey L. Kaufman et al., Clinical Experience with the Multiple Lumen Central Venous Catheter, 10 J. of Parenteral and Enteral Nutrition 487 (Sept./Oct. 1986).
- A209 Jean-Jacques Lanore et al., Hemodialysis for Acute Renal Failure in Patients with Hematologic Malignancies, 19 Critical Care Medicine 346 (Mar. 1991).
- A210 Sakharan D. Mahurkar & G. Dunea, Abstract of Parallel Lumen Continuous Flow Single Needle for Hemodialysis, in 5 Abstracts, ASAIO 22nd annual Meeting, San Francisco, Cal. (April 1-3, 1976).
- A211 Sakharan D. Mahurkar, The Fluid Mechanics of Hemodialysis Catheters, XXXI Trans. Am. Soc. Artif. Intern. Organs 757 (1985).
- A212 Mary C. McCarthy et al., Prospective Evaluation of Single and Triple Lumen Catheters in Total Parenteral Nutrition, 11 J. of Parenteral and Enteral Nutrition 259 (June 1987).
- A213 Henry D. McIntosh et al., Double Lumen Catheter for Use With Artificial Kidney, 169 J.A.M.A. 137 (Feb. 21, 1959).
- A214 Mitchell N. Ross et al., Comparison of Totally Implanted Reservoirs with External Catheters as Venous Access Devices in Pediatric Oncologic Patients, Surgery, Gynecology & Obstetrics 141 (Aug. 1988).
- V A215 W. B. Saunders, Dorland's Illustrated Medical Dictionary 274 (25th ed. 1974).
- RS A216 Seigi Tsuchida et al., Single Two-Lumen Cannula Dialysis, 114 J. Exp. Med. 189 (1974).

Examiner:

Date Considered:

9/27/99

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Applicant:

GEOFFREY S. MARTIN *et al*

Prior Art Unit: 3306

Continuation Application of:

Serial No.: ~~481,169~~ 09/139,705

For: MULTIPLE LUMEN CATHETER

Filing Date: June 7, 1995

Prior Examiner: Ronald K. Stright, Jr.

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References Cited by Applicants

While the filing of Information Disclosure Statements is voluntary, the procedure is governed by the guidelines of Section 60 of the Manual of Patent Examining Procedure and 37 C.F.R. §§ 1.97 and 1.98. To be considered a proper Information Disclosure Statement, Form PTO-1449 shall be accompanied by a copy of each listed patent or publication or other item of information and translation of the pertinent portions of foreign documents (if an existing translation is readily available to the applicant) relevance of each reference not in the English language, and should be submitted in a timely manner as set out in MPEP Sec. 609.

Examiners will consider all citations submitted in conformance with 37 C.F.R. § 1.98 and MPEP Sec. 609 and place their initial adjacent the citations in the spaces provided on this form. Examiners will also initial citations not in conformance with the guideline which may have been considered. A reference may be considered by the Examiner for any reason whether or not the citation is in full conformance with the guidelines. A line will be drawn through a citation if it is not in conformance with the guidelines AND considered. A copy of the submitted form, as reviewed by the Examiner, will be returned to the applicant with the next. The original of the form will be entered into the application file.

Each citation initialed by the Examiner will be printed on the issued patent in the same manner as references cited by the Examiner on Form PTO-892.

The reference designations "A1", "A2", etc. (referring to Applicant's reference 1, Applicant's reference 2, etc.) will be used by the Examiner in the same manner as Examiner's reference designations "A", "B", "C", etc. on Office Action Form PTO-1142.

KSB:je  
C:3273.2.1449  
Docket No.: 2409.3273.2US

Examiner:

*Ronald K. Stright*

Date Considered:

*9/27/99*

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 3200-3071-US-DIV		Sheet <u>09</u> of <u>139705</u> SERIAL NO. <u>07/699,421</u>							
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT GEOFFREY S. MARTIN ET AL									
				FILING DATE 05/13/91		GROUP 336							
U.S. PATENT DOCUMENTS													
EXAMINER INITIAL		DOCUMENT NUMBER						DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
MB	AA	4	9	6	83	0	7	11/90	DAKE ET AL	604	280	4/10/1989	
MB	AB	4	6	8	15	6	4	7/87	LANDRENEAU	604	280		
MB	AC	4	7	6	90	0	5	9/88	GINSBURG ET AL	604	164		
MB	AD	4	1	6	87	0	3	9/79	KENIGSBERG	604	280		
MB	AE	4	6	7	00	0	9	6/87	BULLOCK	604	280		
MB	AF	4	4	0	66	5	6	7/83	HATTLER ET AL	604	280		
MB	AG	4	6	6	82	2	5	5/87	RUSO ET AL	604	280		
MB	AH	4	5	8	39	6	8	4/86	MAHURKAR	604	280		
MB	AI	4	9	6	18	0	9	10/90	MARTIN	604	280		
MB	AJ	3	6	3	49	2	4	1/72	BLAKE ET AL	<del>29</del>	<del>447</del>		
MB	AK	4	0	7	21	4	6	2/78	HOWES	<del>228</del>	<del>205</del>		
FOREIGN PATENT DOCUMENTS													
		DOCUMENT NUMBER						DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
	AL												
	AM												
	AN												
	AO												
	AP												
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)													
	AR												
	AS												
	AT												
EXAMINER									DATE CONSIDERED				
Mark Bocklin									12-2-91				
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.													

For Sep 9/27/99